

Recombinant Human MIF

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|----------------------|---|--------|
| CATALOG #: | 4984-10 | 10 µg |
| | 4984-100 | 100 µg |
| | 4984-1000 | 1 mg |
| LOT #: | _____ | |
| SYNONYMS: | Phenylpyruvate tautomerase, Glycosylation-inhibiting factor, GIF, MMIF, MIF | |
| SOURCE: | <i>E. coli</i> | |
| PURITY: | >97% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of human MIF. | |
| MOLECULAR WT: | 12.5 kDa | |
| FORM: | MIF-Protein was lyophilized from 10 mM sodium phosphate buffer pH-7.5. | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH₂O to a concentration of 0.1 -1 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human MIF is best-stored desiccated below 0°C. Reconstituted MIF should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

DESCRIPTION:

The cytokine Macrophage migration inhibitory factor (MIF) has been identified to be secreted by the pituitary gland and the monocyte/macrophage and to play an important role in endotoxic shock. MIF has the unique property of being released from macrophages and T cells in response to physiological concentrations of glucocorticoids. The secretion of MIF is tightly regulated and decreases at high, anti-inflammatory steroid concentration. Recombinant human MIF is a single, non-glycosylated, polypeptide chain containing 115 amino acids and having a molecular mass of 12.5 kDa.

BIOLOGICAL ACTIVITY:

Human MIF biological activity was measured in an agarose micro droplet assay using human U937 cells as targets. The optimal range of activity found for human MIF in this assay was 0.5-1 µg/ml.

FOR RESEARCH USE ONLY! Not to be used on humans.

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